AUTHOR INDEX

AIKAWA TOSHIKI On the secular variation of amplitudes in double-mode Cepheids.... 1193
AITKEN DAVID K.
see ROCHE PATRICK F.
AITKEN DAVID K.
see ROCHE PATRICK F.
ALLEN D.A., HYLAND A.R., JONES T.J. High-resolution images of the Galactic Centre 1145
ALLEN DAVID A. The symbiotic star H1-36..... 113
ALLEN DAVID A.
see ROCHE PATRICK F.
ALLEN DAVID A.
see STOREY JOHN W.V.
ALLINGTON-SMITH J.R.
see FIELDEN J.
ALPAR M. ALI, CHENG HO Expectancy of large pulsar glitches..... 655
ANTIA H.M., CHITRE S.M., NARASIMHA D. Influence of turbulent pressure on solar convective modes..... 865
APPLEGATE J.H.
see BLANDFORD R.D.
ASHWORTH M.
see LYNE A.G.
AXON D.J.
see SCARROTT S.M.
BAILEY M.E. The structure and evolution of the Solar System comet cloud..... 603
BAILEY M.E., SPARKS W.B. The quick convolution of galaxy profiles, with application to power-law intensity distributions..... 53P
BAJTLIK STANISLAW
see JUSZKIEWICZ ROMAN
BALDWIN J.A., SMITH MALCOLM G. The location of material producing Lyman-limit discontinuities in QSO spectra..... 331
BALDWIN J.A.
see STONE REMINGTON P.S.
BALDWIN J.E.
see WARNER P.J.
BARNES J.V.
see HILDITCH R.W.
BARRELL SUSAN L. Beat Cepheids - IV. AX Velorum and mode energy transfer..... 1
BEATTIE D.H.
see BERRIMAN G.
BECKMAN J.E.
see WHITE GLENN J.
BELL R.A., GUSTAFSSON B. The abundance scale of the galactic globular clusters... 249
BENN C.R.
see FIELDEN J.
BERRIMAN G., BEATTIE D.H., GATLEY IAN, LEE T.J., MOCHNACKI S.W., SZKODY P. An infrared study of the eclipsing dwarf nova U Geminorum..... 1105
BETTWEISER ERICH
see SUGIMOTO DAIICHIRO
BINGHAM R.G.
see SCARROTT S.M.
BLACKWELL D.E., BOOTH A.J., MENON S.L.R., PETFORD A.D., SMITH G. Empirical improvement in accuracy of atomic oscillator strengths calculated by Kurucz and Peytremann..... 141
BLACKWELL D.E.
see BOOTH A.J.
BLACKWELL D.E., MENON S.L.R., PETFORD A.D. Measurement of relative oscillator strengths for TiI - III.Weak transitions from $a^3F_{3,4}$ (0.02 eV, 0.05 eV), a^5F_{1-5} (0.81 eV - 0.85 eV), a^1D_2 (0.90 eV), a^3P_{0-3} (1.05 eV - 1.07 eV) wih solar analysis 883
BLADES J.C., MORTON DONALD C. Interstellar absorption lines in the directions of extragalactic objects - I..... 317
BLANDFORD R.D., APPLEGATE J.H., HERNQUIST L. Thermal origin of neutron star magnetic fields..... 1025
BOOTH A.J.
see BLACKWELL D.E.

AUTHOR INDEX

AIKAWA TOSHIKI On the secular variation of amplitudes in double-mode Cepheids.... 1193
AITKEN DAVID K.
see ROCHE PATRICK F.
AITKEN DAVID K.
see ROCHE PATRICK F.
ALLEN D.A., HYLAND A.R., JONES T.J. High-resolution images of the Galactic Centre 1145
ALLEN DAVID A. The symbiotic star H1-36..... 113
ALLEN DAVID A.
see ROCHE PATRICK F.
ALLEN DAVID A.
see STOREY JOHN W.V.
ALLINGTON-SMITH J.R.
see FIELDEN J.
ALPAR M. ALI, CHENG HO Expectancy of large pulsar glitches..... 655
ANTIA H.M., CHITRE S.M., NARASIMHA D. Influence of turbulent pressure on solar convective modes..... 865
APPLEGATE J.H.
see BLANDFORD R.D.
ASHWORTH M.
see LYNE A.G.
AXON D.J.
see SCARROTT S.M.
BAILEY M.E. The structure and evolution of the Solar System comet cloud..... 603
BAILEY M.E., SPARKS W.B. The quick convolution of galaxy profiles, with application to power-law intensity distributions..... 53P
BAJTLIK STANISLAW
see JUSZKIEWICZ ROMAN
BALDWIN J.A., SMITH MALCOLM G. The location of material producing Lyman-limit discontinuities in QSO spectra..... 331
BALDWIN J.A.
see STONE REMINGTON P.S.
BALDWIN J.E.
see WARNER P.J.
BARNES J.V.
see HILDITCH R.W.
BARRELL SUSAN L. Beat Cepheids - IV. AX Velorum and mode energy transfer..... 1
BEATTIE D.H.
see BERRIMAN G.
BECKMAN J.E.
see WHITE GLENN J.
BELL R.A., GUSTAFSSON B. The abundance scale of the galactic globular clusters... 249
BENN C.R.
see FIELDEN J.
BERRIMAN G., BEATTIE D.H., GATLEY IAN, LEE T.J., MOCHNACKI S.W., SZKODY P. An infrared study of the eclipsing dwarf nova U Geminorum..... 1105
BETTWEISER ERICH
see SUGIMOTO DAIICHIRO
BINGHAM R.G.
see SCARROTT S.M.
BLACKWELL D.E., BOOTH A.J., MENON S.L.R., PETFORD A.D., SMITH G. Empirical improvement in accuracy of atomic oscillator strengths calculated by Kurucz and Peytremann..... 141
BLACKWELL D.E.
see BOOTH A.J.
BLACKWELL D.E., MENON S.L.R., PETFORD A.D. Measurement of relative oscillator strengths for TiI - III.Weak transitions from $a^3F_{3,4}$ (0.02 eV, 0.05 eV), a^5F_{1-5} (0.81 eV - 0.85 eV), a^1D_2 (0.90 eV), a^3P_{0-3} (1.05 eV - 1.07 eV) wih solar analysis 883
BLADES J.C., MORTON DONALD C. Interstellar absorption lines in the directions of extragalactic objects - I..... 317
BLANDFORD R.D., APPLEGATE J.H., HERNQUIST L. Thermal origin of neutron star magnetic fields..... 1025
BOOTH A.J.
see BLACKWELL D.E.

EGGEN OLIN J. Concentrations in the Local Association - I. The southern concentrations NGC 2516, IC 2602, Centaurus - Lupus and Upper Scorpius..... 377
EGGEN OLIN J. Concentrations in the Local Association - II. The northern concentrations including the alpha Persei, Pleiades, M34 and delta Lyrae clusters. 391
EGGEN OLIN J. Concentrations in the Local Association - III. Late-type bright giants, ages and abundances..... 405
EGGLETON PETER P. Towards consistency in simple prescriptions for stellar convection..... 449
ELLIS RICHARD S.
see PHILLIPPS STEVEN
ENDEAN V.G. The pulsar oblique rotator: numerical solution of an illustrative problem..... 1067
EPSTEIN R.I., GUDMUNDSSON E.H., PETHICK C.J. Sensitivity of model calculations to uncertain inputs, with an application to neutron star envelopes..... 471
ERICKSON W.C.
see RICKARD J.J.
ERIGUCHI YOSHIHARU
see HACHISU IZUMI
ERSHKOVICH A.I.
see RAY T.P.
EVANS T.LLOYD Abundance sensitive parameters for red giants in globular clusters. 945
EVANS T.LLOYD Observations of red variable stars in globular clusters..... 961
EVANS T.LLOYD S stars in omega Centauri..... 975
EVANS T.LLOYD M and S stars in the Magellanic Clouds..... 985
FALL S.MICHAEL
see LACEY CEDRIC G.
FIELDEN J., DOWNES A.J.B., ALLINGTON-SMITH J.R., BENN C.R., LONGAIR M.S., PERRYMAN M.A.C. Further high-resolution observations of faint radio sources and the angular size - flux density relation..... 289
FLETT A.M., HENDERSON C. Flux density and linear polarization measurements of variable radio sources at lambda 9.00 mm (33.5 GHz)..... 1285
FOSBURY R.A.E.
see PREUSS E.
FOSBURY R.A.E., SANSOM ANNE E. The high-ionization optical spectrum of the Seyfert galaxy Tololo 0109-383..... 1231
FOTI G.
see STRAZZULLA G.
FROST R.F.
see WHITE GLENN J.
FURR ANDREW W.
see CLARK DAVID H.
GARDNER F.F., MARTIN-PINTADO J. Quasi-thermal excitation of the satellite lines of OH at 5 cm..... 709
GATLEY IAN
see BERRIMAN G.
GATLEY IAN
see JONES TERRY JAY
GILMOZZI ROBERTO
see CLARK DAVID H.
GINGOLD R.A., MONAGHAN J.J. On the fragmentation of differentially rotating clouds..... 715
GLASS R. Correlation and the $3s^2 3p^5\ ^2P^o - 3s3p^6\ ^2S$, $3s^2 3p^5\ ^2P^o - 3s^2 3p^4 3d^2S$ transitions in Fe X..... 735
GODWIN P.J.
see LYNDEN-BELL D.
GONDHALEKAR P.M. Diffuse ultraviolet radiaton in the intergalactic medium..... 997
GORSKI KRZYSZTOF
see JUSZKIEWICZ ROMAN
GOSS W.M.
see MILNE D.K.
GRANDI STEVEN A. Spectroscopic observations of southern N-galaxy candidates..... 691
GUDMUNDSSON E.H.
see EPSTEIN R.I.
GUILBERT P.W.
see STEPNEY SUSAN
GUSTAFSSON B.
see BELL R.A.

HACHISU IZUMI, ERIGUCHI YOSHIHARU Bifurcations and phase transitions of self-gravitating and uniformly rotating fluid..... 583
HARKNESS R.P. Continuum emission from classical nova winds..... 45
HARMER C.F.W.
see HARMER DIANNE L.
HARMER DIANNE L., STICKLAND D.J., LLOYD C., HARMER C.F.W., PIKE C.D., CROFT D. A study of the binary system 58 Persei..... 927
HAYNES R.F.
see CASWELL J.L.
HAYNES R.F.
see CASWELL J.L.
HEARNSHAW J.B.
see MCDONALD ADELINE R.E.
HEAVENS A.F. Particle acceleration in shocks: the effect of finite cosmic-ray pressure on the energy distribution..... 699
HEBDEN J.C.
see MEABURN J.
HENDERSON C.
see FLETT A.M.
HERNQUIST L.
see BLANDFORD R.D.
HILDITCH R.W., HILL GRAHAM, BARNES J.V. Studies of A and F stars in the region of the North Galactic Pole - V.Interstellar reddening and the uvbyβ intrinsic colour calibration..... 241
HILL GRAHAM
see HILDITCH R.W.
HOWARTH IAN D., WILSON BOB HZ Her: the nature and origin of the emission lines... 1091
HUGHES DAVID W. Holetschek's effect revisited..... 23
HUGHES DAVID W. Temporal variations of the absolute magnitude of Halley's comet.. 1291
HYLAND A.R.
see ALLEN D.A.
HYLAND A.R.
see JONES TERRY JAY
JONES J. Radar observations of the Orionid meteor shower..... 765
JONES P.B. The transitions between normal and null states of radio pulsars..... 9
JONES T.J.
see ALLEN D.A.
JONES TERRY JAY, HYLAND A.R., GATLEY IAN Central distribution of the near-infrared colours in two early-type spirals..... 1263
JUSZKIEWICZ ROMAN, BAJTLIK STANISLAW, GORSKI KRZYSZTOF The helium abundance and the isotropy of the Universe..... 63P
KLYPIN A.A., SHANDARIN S.F. Three-dimensional numerical model of the formation of large-scale structure in the Universe..... 891
KOHOUTEK L. Recent photometry of the central star of NGC 2346..... 93P
LACEY CEDRIC G., FALL S.MICHAEL Kinematical and chemical evolution of the galactic disc..... 791
LAING R.A., RILEY J.M., LONGAIR M.S. Bright radio sources at 178 MHz: flux densities, optical identifications and the cosmological evolution of powerful radio galaxies..... 151
LEE T.J.
see BERRIMAN G.
LEIBOWITZ ELIA M., DANZIGER I.J. Spectrophotometry in the galactic supernova remnants RCW 86, 103 and Kepler..... 273
LLOYD C.
see HARMER DIANNE L.
LOCK T.D., ROWAN-ROBINSON M. Predicted source counts for normal and active galaxies at 10 - 100 μm..... 1P
LONGAIR M.S.
see LAING R.A.
LONGAIR M.S.
see FIELDEN J.
LOPEZ J.A., WALSH J.R. On the carbon overabundance in the OBC-type stars..... 129
LOPEZ J.A., MEABURN J. The structure and dynamics of the bi-polar nebula MZ-3.... 203
LUCEY J.R. An assessment of the completeness and correctness of the Abell catalogue..... 33
LYNDEN-BELL D., CANNON R.D., GODWIN P.J. Slippery evidence on the Galaxy's invisible heavy halo..... 87P

LYNE A.G., ASHWORTH M. The effect of nulls upon subpulse drift in PSRs 0809+74 and 0818-13..... 519
MARASCHI L., TRAVERSINI R., TREVES A. A model for A 0538-66: the fast flaring pulsar..... 1179
MARTIN-PINTADO J.
see GARDNER F.F.
MCDONALD ADELINE R.E., HEARNSHAW J.B. The Wolf 630 moving group of stars..... 841
MCGEE R.X.
see SHAVER P.A.
MCLEAN B.J. Radial velocities for contact binary systems - III. V566 Ophiuchi.... 817
MEABURN J.
see LOPEZ J.A.
MEABURN J., WALSH J.R., HEBDEN J.C., MORGAN B.L., VINE H. Speckle observations of eta Carinae..... 41P
MELOTT ADRIAN L. Direct dissipationless formation of filaments in the large-scale matter distribution..... 7P
MENON S.L.R.
see BLACKWELL D.E.
MENON S.L.R.
see BLACKWELL D.E.
MESTEL L., MOSS D.L. On the Biermann 'battery' process in uniformly rotating chemically inhomogeneous stars..... 557
MESTEL L., MOSS D.L. On the decay of the toroidal component of a large-scale stellar magnetic field..... 575
MILNE D.K., GOSS W.M., DANZIGER I.J. Radio observations of the SNR Puppis A..... 237
MILNE D.K.
see CASWELL J.L.
MILNE D.K.
see CASWELL J.L.
MOCHNACKI S.W.
see BERRIMAN G.
MOHANTY D.K.
see VIVEKANAND M.
MONAGHAN J.J.
see GINGOLD R.A.
MORGAN B.L.
see MEABURN J.
MORTON DONALD C.
see BLADES J.C.
MOSS D.L.
see MESTEL L.
MOSS D.L.
see MESTEL L.
MURDIN PAUL
see CLARK DAVID H.
NANDY K.
see BROMAGE G.E.
NARASIMHA D.
see ANTIA H.M.
NEWTON LYNETTE M.
see SHAVER P.A.
PALLISTER W.S.
see SCARROTT S.M.
PALMER PHILIP L. Resonant effects during the tidal encounter of disc galaxies.... 507
PAPADAKOS D.N., WILLIAMS I.P. Escape of ejecta from cratered Solar System satellites..... 635
PAPALOIZOU J.
see CAMPBELL C.G.
PEACOCK J.A.
see PRESTAGE R.M.
PERLEY R.A.
see RICKARD J.J.
PERRYMAN M.A.C.
see FIELDEN J.
PETFORD A.D.
see BLACKWELL D.E.
PETFORD A.D.
see BLACKWELL D.E.

PETHICK C.J.
see EPSTEIN R.I.
PHILLIPS J.P.
see WHITE GLENN J.
PHILLIPPS STEVEN, ELLIS RICHARD S. The distribution of absorption lines in QSO spectra..... 493
PICKLES A.J., VISVANATHAN N. H 0139-68: high-speed optical photometry of an AM-Herculis type binary system..... 463
PIKE C.D.
see HARMER DIANNE L.
POTTASCH S.R.
see SHAVER P.A.
PRESTAGE R.M., PEACOCK J.A. Optical identifications of Parkes radio sources using UK Schmidt plates..... 355
PREUSS E., FOSBURY R.A.E. VLBI observations of NGC 4151, Mk 231 and other galaxies with broad emission line nuclei..... 783
PROCTOR M.R.E. Collective bifurcation of flux sheets in two-dimensional magnetoconvection..... 935
RAHE J.
see WARGAU W.
RAY A.
see DATTA B.
RAY T.P., ERSHKOVICH A.I. Kelvin-Helmholtz instabilities in a sheared compressible plasma..... 821
RETALLACK D.S. Radio emission from Eta Carinae and the surrounding nebula..... 669
RICHARDSON K.J.
see WHITE GLENN J.
RICKARD J.J., ERICKSON W.C., PERLEY R.A., CRONYN W.M. VLA observations of compact radio sources near the galactic plane..... 647
RILEY J.M.
see LAING R.A.
RILEY J.M.
see WARNER P.J.
ROBERTSON J.G., SHAVER P.A. Spectroscopy of the QSO pair Q1228+076/ Q1228+077.... 69P
ROCHE PATRICK F., ALLEN DAVID A., AITKEN DAVID K. Symbiotic stars: spectrophotometry at 3 - 4 and 8 - 13 μm..... 1009
ROCHE PATRICK F., AITKEN DAVID K., WHITMORE BRIAN 8 - 13 μm spectral observations of eight moderately extended planetary nebulae..... 1017
ROMANISHIN W. Very large spiral galaxies..... 909
ROWAN-ROBINSON M.
see LOCK T.D.
SALTER C.J.
see VIVEKANAND M.
SANSOM ANNE E.
see FOSBURY R.A.E.
SAVAGE ANN
see CLOWES ROGER G.
SCARROTT S.M., WARREN-SMITH R.F., PALLISTER W.S., AXON D.J., BINGHAM R.G. Electronographic polarimetry: the Durham polarimeter..... 1163
SCARROTT S.M.
see SHIRT J.V.
SCHUCH N.J. The Ursa Major supercluster - II.A statistical analysis of the radio survey..... 1245
SHANDARIN S.F.
see KLYPIN A.A.
SHAVER P.A., MCGEE R.X., NEWTON LYNETTE M., DANKS A.C., POTTASCH S.R. The galactic abundance gradient..... 53
SHAVER P.A.
see ROBERTSON J.G.
SHIRT J.V., WARREN-SMITH R.F., SCARROTT S.M. Optical polarization in the bipolar nebula associated with LkHα208..... 1257
SHOBBROOK R.R. The beta Cep variables - fundamental radial pulsators..... 47P
SIMONS S. The asymptotic mass distribution for an accreting system of particles.. 837
SMITH G.
see BLACKWELL D.E.
SMITH MALCOLM G.
see BALDWIN J.A.

SMITH MALCOLM G.
see WEBSTER B.LOUISE
SPARKS W.B. The reddening of radio elliptical galaxies..... 1049
SPARKS W.B.
see BAILEY M.E.
STEPNEY SUSAN, GUILBERT P.W. Numerical fits to important rates in high temperature astrophysical plasmas..... 1269
STICKLAND D.J.
see HARMER DIANNE L.
STONE REMINGTON P.S., BALDWIN J.A. Southern spectrophotometric standards for large telescopes..... 347
STOREY JOHN W.V., ALLEN DAVID A. The Galactic nucleus..... 1153
STRAZZULLA G., CALCAGNO L., FOTI G. Polymerization induced on interstellar grains by low-energy cosmic rays..... 59P
SUGIMOTO DAIICHIRO, BETTWEISER ERICH Post-collapse evolution of globular clusters 19P
SZKODY P.
see BERRIMAN G.
TARAFDAR S.P. Molecules in celestial objects - IV. IUE observation of CO lines towards Be stars with low reddening..... 1081
TRAVERSINI R.
see MARASCHI L.
TREVES A.
see MARASCHI L.
VILLUMSEN JENS VERNER Simulations of galaxy mergers - II..... 219
VINE H.
see MEABURN J.
VISVANATHAN N.
see PICKLES A.J.
VIVEKANAND M., MOHANTY D.K., SALTER C.J. Improved parameters for 40 pulsars..... 81P
WALSH J.R.
see LOPEZ J.A.
WALSH J.R.
see MEABURN J.
WARGAU W., DRECHSEL H., RAHE J., BRUCH A. Spectrophotometry of the recently discovered cataclysmic variable CPD -48° 1577..... 35P
WARNER P.J., RILEY J.M., EALES S.A., DOWNES A.J.B., BALDWIN J.E. Redshifts of five extragalactic radio sources..... 1279
WARREN-SMITH R.F.
see SCARROTT S.M.
WARREN-SMITH R.F.
see SHIRT J.V.
WATT G.D.
see WHITE GLENN J.
WEBSTER B.LOUISE, SMITH MALCOLM G. Abundance gradients in galaxies in the Sculptor and Centaurus groups..... 743
WELLINGTON K.J.
see CASWELL J.L.
WELLINGTON K.J.
see CASWELL J.L.
WELSH B.Y. IUE observations of stars in the M8 nebula..... 1203
WHITE GLENN J., PHILLIPS J.P., RICHARDSON K.J., FROST R.F., WATT G.D., BECKMAN J.E. DAVIS J.H. CS J=5-4 observations of galactic molecular clouds..... 1117
WHITMORE BRIAN
see ROCHE PATRICK F.
WILLIAMS I.P.
see PAPADAKOS D.N.
WILLIAMS S., WOOLFSON M.M. Planetary spin and satellite formation..... 853
WILLSTROP R.V. The Couder telescope - better than the Schmidt?..... 99P
WILSON BOB
see HOWARTH IAN D.
WOLSZCZAN A. A frequency correlation analysis of pulsar scintillation spectra.... 591
WOOD ROGER
see CLARK DAVID H.
WOOLFSON M.M.
see WILLIAMS S.
WOOLFSON M.M.
see CONNELL A.J.

YABUSHITA S. Distribution of cometary binding energies based on the assumption of steady state..... 1185
ZUIDERWIJK E.J., DE RUITER H.R. On the apparent association of quasars and Arp's companion galaxies..... 675

SUBJECT INDEX

ABUNDANCES OF THE ELEMENTS
The galactic abundance gradient, SHAVER P.A., MCGEE R.X., NEWTON LYNETTE M., DANKS A.C., POTTASCH S.R. 53
The abundance scale of the galactic globular clusters, BELL R.A., GUSTAFSSON B. 249
Abundance gradients in galaxies in the Sculptor and Centaurus groups, WEBSTER B.LOUISE, SMITH MALCOLM G. 743
Kinematical and chemical evolution of the galactic disc, LACEY CEDRIC G., FALL S.MICHAEL 791
The helium abundance and the isotropy of the Universe, JUSZKIEWICZ ROMAN, BAJTLIK STANISLAW, GORSKI KRZYSZTOF 63P

ACCRETION AND ACCRETION DISKS
HZ Her: the nature and origin of the emission lines, HOWARTH IAN D., WILSON BOB. 1091
A model for A 0538-66: the fast flaring pulsar, MARASCHI L., TRAVERSINI R., TREVES A. 1179

ASTROMETRY
Optical positions of Seyfert galaxies - II, CLEMENTS E.D. 811
The pulsar $\dot{P}/P$ distribution and the postulated solar companion, COWLING STEPHEN A. 1237

BL LAC OBJECTS
Is it possible to turn an elliptical radio galaxy into a BL Lac object?, BROWNE I.W.A. 23P

CELESTIAL MECHANICS
Simulations of galaxy mergers - II, VILLUMSEN JENS VERNER 219
The possibility of non-synchronism of convective secondaries in close binary stars, CAMPBELL C.G., PAPALOIZOU J. 433
Bifurcations and phase transitions of self-gravitating and uniformly rotating fluid HACHISU IZUMI, ERIGUCHI YOSHIHARU 583
Escape of ejecta from cratered Solar System satellites, PAPADAKOS D.N., WILLIAMS I.P. 635
On the fragmentation of differentially rotating clouds, GINGOLD R.A., MONAGHAN J.J. 715
The asymptotic mass distribution for an accreting system of particles, SIMONS S. 837
Planetary spin and satellite formation, WILLIAMS S., WOOLFSON M.M. 853
Distribution of cometary binding energies based on the assumption of steady state, YABUSHITA S. 1185
Post-collapse evolution of globular clusters, SUGIMOTO DAIICHIRO, BETTWEISER ERICH. 19P
Resonant effects during the tidal encounter of disc galaxies, PALMER PHILIP L. 507

COMETS
Holetschek's effect revisited, HUGHES DAVID W. 23
The structure and evolution of the Solar System comet cloud, BAILEY M.E. 603
Distribution of cometary binding energies based on the assumption of steady state, YABUSHITA S. 1185
Temporal variations of the absolute magnitude of Halley's comet, HUGHES DAVID W. 1291

COSMIC RAYS
Particle acceleration in shocks: the effect of finite cosmic-ray pressure on the energy distribution, HEAVENS A.F. 699
Polymerization induced on interstellar grains by low-energy cosmic rays, STRAZZULLA G., CALCAGNO L., FOTI G. 59P

COSMOLOGY
An assessment of the completeness and correctness of the Abell catalogue, LUCEY J.R. 33
Bright radio sources at 178 MHz: flux densities, optical identifications and the cosmological evolution of powerful radio galaxies, LAING R.A., RILEY J.M., LONGAIR M.S. 151
Further high-resolution observations of faint radio sources and the angular size - flux density relation, FIELDEN J., DOWNES A.J.B., ALLINGTON-SMITH J.R., BENN C.R., LONGAIR M.S., PERRYMAN M.A.C. 289

The distribution of absorption lines in QSO spectra, PHILLIPPS STEVEN, ELLIS RICHARD S..... 493
Three-dimensional numerical model of the formation of large-scale structure in the Universe, KLYPIN A.A., SHANDARIN S.F..... 891
Very large spiral galaxies, ROMANISHIN W..... 909
Direct dissipationless formation of filaments in the large-scale matter distribution, MELOTT ADRIAN L..... 7P
The helium abundance and the isotropy of the Universe, JUSZKIEWICZ ROMAN, BAJTLIK STANISLAW, GORSKI KRZYSZTOF..... 63P

DATA REDUCTION
The quick convolution of galaxy profiles, with application to power-law intensity distributions, BAILEY M.E., SPARKS W.B..... 53P

GALACTIC CENTRE
High-resolution images of the Galactic Centre, ALLEN D.A., HYLAND A.R., JONES T.J.. 1145
The Galactic nucleus, STOREY JOHN W.V., ALLEN DAVID A..... 1153
The quick convolution of galaxy profiles, with application to power-law intensity distributions, BAILEY M.E., SPARKS W.B..... 53P

GALACTIC STRUCTURE AND STELLAR DYNAMICS
Simulations of galaxy mergers - II, VILLUMSEN JENS VERNER..... 219
Resonant effects during the tidal encounter of disc galaxies, PALMER PHILIP L..... 507
Kinematical and chemical evolution of the galactic disc, LACEY CEDRIC G., FALL S.MICHAEL..... 791
Slippery evidence on the Galaxy's invisible heavy halo, LYNDEN-BELL D., CANNON R.D. GODWIN P.J..... 87P

GALAXIES
Simulations of galaxy mergers - II, VILLUMSEN JENS VERNER..... 219
Interstellar absorption lines in the directions of extragalactic objects - I, BLADES J.C., MORTON DONALD C..... 317
Resonant effects during the tidal encounter of disc galaxies, PALMER PHILIP L..... 507
On the apparent association of quasars and Arp's companion galaxies, ZUIDERWIJK E.J., DE RUITER H.R..... 675
Abundance gradients in galaxies in the Sculptor and Centaurus groups, WEBSTER B.LOUISE, SMITH MALCOLM G..... 743
Very large spiral galaxies, ROMANISHIN W..... 909
The reddening of radio elliptical galaxies, SPARKS W.B..... 1049
Central distribution of the near-infrared colours in two early-type spirals, JONES TERRY JAY, HYLAND A.R., GATLEY IAN..... 1263
Predicted source counts for normal and active galaxies at 10 - 100 μm, LOCK T.D., ROWAN-ROBINSON M..... 1P
Slippery evidence on the Galaxy's invisible heavy halo, LYNDEN-BELL D., CANNON R.D. GODWIN P.J..... 87P

GALAXIES - ACTIVE
Bright radio sources at 178 MHz: flux densities, optical identifications and the cosmological evolution of powerful radio galaxies, LAING R.A., RILEY J.M., LONGAIR M.S..... 151
Optical identifications of Parkes radio sources using UK Schmidt plates, PRESTAGE R.M., PEACOCK J.A..... 355
Spectroscopic observations of southern N-galaxy candidates, GRANDI STEVEN A..... 691
The reddening of radio elliptical galaxies, SPARKS W.B..... 1049
The Ursa Major supercluster - II.A statistical analysis of the radio survey, SCHUCH N.J..... 1245
Redshifts of five extragalactic radio sources, WARNER P.J., RILEY J.M., EALES S.A., DOWNES A.J.B., BALDWIN J.E..... 1279
Flux density and linear polarization measurements of variable radio sources at lambda 9.00 mm (33.5 GHz), FLETT A.M., HENDERSON C..... 1285
Predicted source counts for normal and active galaxies at 10 - 100 μm, LOCK T.D., ROWAN-ROBINSON M..... 1P
Is it possible to turn an elliptical radio galaxy into a BL Lac object?, BROWNE I.W.A..... 23P

GALAXIES - FORMATION OF
Three-dimensional numerical model of the formation of large-scale structure in the Universe, KLYPIN A.A., SHANDARIN S.F..... 891

Direct dissipationless formation of filaments in the large-scale matter distribution, MELOTT ADRIAN L..... 7P

GALAXIES - NUCLEI OF
VLBI observations of NGC 4151, Mk 231 and other galaxies with broad emission line nuclei, PREUSS E., FOSBURY R.A.E..... 783
Continuum reddening of Seyfert 1 nuclei, CHENG F.Z., DANESE L., DE ZOTTI G..... 13P
The quick convolution of galaxy profiles, with application to power-law intensity distributions, BAILEY M.E., SPARKS W.B..... 53P

GALAXIES - SEYFERT
The Seyfert 1 galaxy NGC 4593 - II.The pattern of variability of the UV spectrum, CLAVEL J..... 189
Optical positions of Seyfert galaxies - II, CLEMENTS E.D..... 811
The high-ionization optical spectrum of the Seyfert galaxy Tololo 0109-383, FOSBURY R.A.E., SANSOM ANNE E..... 1231
Continuum reddening of Seyfert 1 nuclei, CHENG F.Z., DANESE L., DE ZOTTI G..... 13P

GALAXY CLUSTERS
An assessment of the completeness and correctness of the Abell catalogue, LUCEY J.R..... 33
Three-dimensional numerical model of the formation of large-scale structure in the Universe, KLYPIN A.A., SHANDARIN S.F..... 891
The Ursa Major supercluster - II.A statistical analysis of the radio survey, SCHUCH N.J..... 1245

GAMMA-RAY ASTRONOMY
Pulsar electrodynamics: cylindrical model and radio and gamma-ray radiation, DA COSTA A.A..... 1125
Numerical fits to important rates in high temperature astrophysical plasmas, STEPNEY SUSAN, GUILBERT P.W..... 1269

GRAVITATION AND GRAVITATIONAL RADIATION
An interaction between gravitational and electromagnetic waves, CRUISE A.M..... 485

HIGH-VELOCITY CLOUDS
Interstellar absorption lines in the directions of extragalactic objects - I, BLADES J.C., MORTON DONALD C..... 317

INFRARED ASTRONOMY
The symbiotic star H1-36, ALLEN DAVID A..... 113
Symbiotic stars: spectrophotometry at 3 - 4 and 8 - 13 μm, ROCHE PATRICK F., ALLEN DAVID A., AITKEN DAVID K..... 1009
8 - 13 μm spectral observations of eight moderately extended planetary nebulae, ROCHE PATRICK F., AITKEN DAVID K., WHITMORE BRIAN..... 1017
An infrared study of the eclipsing dwarf nova U Geminorum, BERRIMAN G., BEATTIE D.H., GATLEY IAN, LEE T.J., MOCHNACKI S.W., SZKODY P..... 1105
High-resolution images of the Galactic Centre, ALLEN D.A., HYLAND A.R., JONES T.J.. 1145
The Galactic nucleus, STOREY JOHN W.V., ALLEN DAVID A..... 1153
Central distribution of the near-infrared colours in two early-type spirals, JONES TERRY JAY, HYLAND A.R., GATLEY IAN..... 1263
Predicted source counts for normal and active galaxies at 10 - 100 μm, LOCK T.D., ROWAN-ROBINSON M..... 1P

INSTRUMENTS AND TECHNIQUES
Electronographic polarimetry: the Durham polarimeter, SCARROTT S.M., WARREN-SMITH R.F., PALLISTER W.S., AXON D.J., BINGHAM R.G..... 1163
The Couder telescope - better than the Schmidt?, WILLSTROP R.V..... 99P

INTERGALACTIC MEDIUM
The location of material producing Lyman-limit discontinuities in QSO spectra, BALDWIN J.A., SMITH MALCOLM G..... 331
The distribution of absorption lines in QSO spectra, PHILLIPPS STEVEN, ELLIS RICHARD S..... 493
Diffuse ultraviolet radiaton in the intergalactic medium, GONDHALEKAR P.M..... 997
Spectroscopy of the QSO pair Q1228+076/ Q1228+077, ROBERTSON J.G., SHAVER P.A..... 69P

INTERSTELLAR GRAINS
Studies of A and F stars in the region of the North Galactic Pole - V.Interstellar reddening and the uvbyβ intrinsic colour calibration, HILDITCH R.W., HILL GRAHAM, BARNES J.V..... 241
Symbiotic stars: spectrophotometry at 3 - 4 and 8 - 13 μm, ROCHE PATRICK F., ALLEN DAVID A., AITKEN DAVID K..... 1009
The conspicuous absence of normal graphite grains in the Small Magellanic Cloud, BROMAGE G.E., NANDY K..... 29P
Polymerization induced on interstellar grains by low-energy cosmic rays, STRAZZULLA G., CALCAGNO L., FOTI G..... 59P

INTERSTELLAR MEDIUM
The galactic abundance gradient, SHAVER P.A., MCGEE R.X., NEWTON LYNETTE M., DANKS A.C., POTTASCH S.R..... 53
Interstellar absorption lines in the directions of extragalactic objects - I, BLADES J.C., MORTON DONALD C..... 317
A frequency correlation analysis of pulsar scintillation spectra, WOLSZCZAN A..... 591
VLA observations of compact radio sources near the galactic plane, RICKARD J.J., ERICKSON W.C., PERLEY R.A., CRONYN W.M..... 647

MAGELLANIC CLOUDS
M and S stars in the Magellanic Clouds, EVANS T.LLOYD..... 985
The conspicuous absence of normal graphite grains in the Small Magellanic Cloud, BROMAGE G.E., NANDY K..... 29P

METEORS
Radar observations of the Orionid meteor shower, JONES J..... 765

MOLECULES
Molecules in celestial objects - IV. IUE observation of CO lines towards Be stars with low reddening, TARAFDAR S.P..... 1081
CS J=5-4 observations of galactic molecular clouds, WHITE GLENN J., PHILLIPS J.P., RICHARDSON K.J., FROST R.F., WATT G.D., BECKMAN J.E., DAVIS J.H..... 1117
Polymerization induced on interstellar grains by low-energy cosmic rays, STRAZZULLA G., CALCAGNO L., FOTI G..... 59P

NEBULAE - GASEOUS
The galactic abundance gradient, SHAVER P.A., MCGEE R.X., NEWTON LYNETTE M., DANKS A.C., POTTASCH S.R..... 53
The structure and dynamics of the bi-polar nebula MZ-3, LOPEZ J.A., MEABURN J..... 203
Radio emission from Eta Carinae and the surrounding nebula, RETALLACK D.S..... 669
Quasi-thermal excitation of the satellite lines of OH at 5 cm, GARDNER F.F., MARTIN-PINTADO J..... 709
Abundance gradients in galaxies in the Sculptor and Centaurus groups, WEBSTER B.LOUISE, SMITH MALCOLM G..... 743
CS J=5-4 observations of galactic molecular clouds, WHITE GLENN J., PHILLIPS J.P., RICHARDSON K.J., FROST R.F., WATT G.D., BECKMAN J.E., DAVIS J.H..... 1117
IUE observations of stars in the M8 nebula, WELSH B.Y..... 1203

NEBULAE - PLANETARY
8 - 13 μm spectral observations of eight moderately extended planetary nebulae, ROCHE PATRICK F., AITKEN DAVID K., WHITMORE BRIAN..... 1017
Recent photometry of the central star of NGC 2346, KOHOUTEK L..... 93P

NEBULAE - REFLECTION
Optical polarization in the bipolar nebula associated with LkHα208, SHIRT J.V., WARREN-SMITH R.F., SCARROTT S.M..... 1257

NEUTRON STARS
Sensitivity of model calculations to uncertain inputs, with an application to neutron star envelopes, EPSTEIN R.I., GUDMUNDSSON E.H., PETHICK C.J..... 471
Expectancy of large pulsar glitches, ALPAR M. ALI, CHENG HO..... 655
Thermal origin of neutron star magnetic fields, BLANDFORD R.D., APPLEGATE J.H., HERNQUIST L..... 1025
Lower bounds on neutron star mass and moment of inertia implied by the millisecond pulsar, DATTA B., RAY A..... 75P

NOVAE
Continuum emission from classical nova winds, HARKNESS R.P..... 45
An infrared study of the eclipsing dwarf nova U Geminorum, BERRIMAN G., BEATTIE D.H., GATLEY IAN, LEE T.J., MOCHNACKI S.W., SZKODY P..... 1105

PHOTOMETRY - NON-STELLAR
Spectrophotometry in the galactic supernova remnants RCW 86, 103 and Kepler, LEIBOWITZ ELIA M., DANZIGER I.J..... 273
Abundance gradients in galaxies in the Sculptor and Centaurus groups, WEBSTER B.LOUISE, SMITH MALCOLM G..... 743
The quick convolution of galaxy profiles, with application to power-law intensity distributions, BAILEY M.E., SPARKS W.B..... 53P

PHYSICAL PROCESSES
The transitions between normal and null states of radio pulsars, JONES P.B..... 9
Towards consistency in simple prescriptions for stellar convection, EGGLETON PETER P..... 449
Sensitivity of model calculations to uncertain inputs, with an application to neutron star envelopes, EPSTEIN R.I., GUDMUNDSSON E.H., PETHICK C.J..... 471
An interaction between gravitational and electromagnetic waves, CRUISE A.M..... 485
On the Biermann 'battery' process in uniformly rotating chemically inhomogeneous stars, MESTEL L., MOSS D.L..... 557
Particle acceleration in shocks: the effect of finite cosmic-ray pressure on the energy distribution, HEAVENS A.F..... 699
Quasi-thermal excitation of the satellite lines of OH at 5 cm, GARDNER F.F., MARTIN-PINTADO J..... 709
On the fragmentation of differentially rotating clouds, GINGOLD R.A., MONAGHAN J.J. 715
Kelvin-Helmholtz instabilities in a sheared compressible plasma, RAY T.P., ERSHKOVICH A.I..... 821
Influence of turbulent pressure on solar convective modes, ANTIA H.M., CHITRE S.M., NARASIMHA D..... 865
Collective bifurcation of flux sheets in two-dimensional magnetoconvection, PROCTOR M.R.E..... 935
Thermal origin of neutron star magnetic fields, BLANDFORD R.D., APPLEGATE J.H., HERNQUIST L..... 1025
The pulsar oblique rotator: numerical solution of an illustrative problem, ENDEAN V.G..... 1067
Pulsar electrodynamics: cylindrical model and radio and gamma-ray radiation, DA COSTA A.A..... 1125
Numerical fits to important rates in high temperature astrophysical plasmas, STEPNEY SUSAN, GUILBERT P.W..... 1269
Direct dissipationless formation of filaments in the large-scale matter distribution, MELOTT ADRIAN L..... 7P
The helium abundance and the isotropy of the Universe, JUSZKIEWICZ ROMAN, BAJTLIK STANISLAW, GORSKI KRZYSZTOF..... 63P

PLANETS
Planetary spin and satellite formation, WILLIAMS S., WOOLFSON M.M..... 853
Evolution of the surface of Mars, CONNELL A.J., WOOLFSON M.M..... 1221

POLARIZATION OF STARLIGHT
Electronographic polarimetry: the Durham polarimeter, SCARROTT S.M., WARREN-SMITH R.F., PALLISTER W.S., AXON D.J., BINGHAM R.G..... 1163
Optical polarization in the bipolar nebula associated with LkHα208, SHIRT J.V., WARREN-SMITH R.F., SCARROTT S.M..... 1257

PULSARS
The transitions between normal and null states of radio pulsars, JONES P.B..... 9
The effect of nulls upon subpulse drift in PSRs 0809+74 and 0818-13, LYNE A.G., ASHWORTH M..... 519
A frequency correlation analysis of pulsar scintillation spectra, WOLSZCZAN A..... 591
Expectancy of large pulsar glitches, ALPAR M. ALI, CHENG HO..... 655
The pulsar oblique rotator: numerical solution of an illustrative problem, ENDEAN V.G..... 1067
Pulsar electrodynamics: cylindrical model and radio and gamma-ray radiation, DA COSTA A.A..... 1125
A model for A 0538-66: the fast flaring pulsar, MARASCHI L., TRAVERSINI R., TREVES A..... 1179

The pulsar $\dot{P}/P$ distribution and the postulated solar companion, COWLING STEPHEN A.. 1237
Lower bounds on neutron star mass and moment of inertia implied by the millisecond pulsar, DATTA B., RAY A..... 75P
Improved parameters for 40 pulsars, VIVEKANAND M., MOHANTY D.K., SALTER C.J..... 81P

QUASARS
The location of material producing Lyman-limit discontinuities in QSO spectra, BALDWIN J.A., SMITH MALCOLM G..... 331
Optical identifications of Parkes radio sources using UK Schmidt plates, PRESTAGE R.M., PEACOCK J.A..... 355
Optically-selected quasar candidates in a field containing the South Galactic Pole, CLOWES ROGER G., SAVAGE ANN..... 365
The distribution of absorption lines in QSO spectra, PHILLIPPS STEVEN, ELLIS RICHARD S..... 493
On the apparent association of quasars and Arp's companion galaxies, ZUIDERWIJK E.J., DE RUITER H.R..... 675
Diffuse ultraviolet radiaton in the intergalactic medium, GONDHALEKAR P.M..... 997
Redshifts of five extragalactic radio sources, WARNER P.J., RILEY J.M., EALES S.A., DOWNES A.J.B., BALDWIN J.E..... 1279
Flux density and linear polarization measurements of variable radio sources at lambda 9.00 mm (33.5 GHz), FLETT A.M., HENDERSON C..... 1285
Spectroscopy of the QSO pair Q1228+076/ Q1228+077, ROBERTSON J.G., SHAVER P.A..... 69P

RADIATIVE TRANSFER
An interaction between gravitational and electromagnetic waves, CRUISE A.M..... 485

RADIO ASTRONOMY
The galactic abundance gradient, SHAVER P.A., MCGEE R.X., NEWTON LYNETTE M., DANKS A.C., POTTASCH S.R..... 53
Bright radio sources at 178 MHz: flux densities, optical identifications and the cosmological evolution of powerful radio galaxies, LAING R.A., RILEY J.M., LONGAIR M.S..... 151
Radio observations of the SNR Puppis A, MILNE D.K., GOSS W.M., DANZIGER I.J..... 237
Further high-resolution observations of faint radio sources and the angular size - flux density relation, FIELDEN J., DOWNES A.J.B., ALLINGTON-SMITH J.R., BENN C.R., LONGAIR M.S., PERRYMAN M.A.C..... 289
Optical identifications of Parkes radio sources using UK Schmidt plates, PRESTAGE R.M., PEACOCK J.A..... 355
The effect of nulls upon subpulse drift in PSRs 0809+74 and 0818-13, LYNE A.G., ASHWORTH M..... 519
A frequency correlation analysis of pulsar scintillation spectra, WOLSZCZAN A..... 591
VLA observations of compact radio sources near the galactic plane, RICKARD J.J., ERICKSON W.C., PERLEY R.A., CRONYN W.M..... 647
Radio emission from Eta Carinae and the surrounding nebula, RETALLACK D.S..... 669
Spectroscopic observations of southern N-galaxy candidates, GRANDI STEVEN A..... 691
Quasi-thermal excitation of the satellite lines of OH at 5 cm, GARDNER F.F., MARTIN-PINTADO J..... 709
Radar observations of the Orionid meteor shower, JONES J..... 765
VLBI observations of NGC 4151, Mk 231 and other galaxies with broad emission line nuclei, PREUSS E., FOSBURY R.A.E..... 783
Radio observations of a new galactic supernova remnant, G9.8+0.6, CASWELL J.L..... 833
High-resolution study of the supernova remnant G330.2+1.0, CASWELL J.L., HAYNES R.F., MILNE D.K., WELLINGTON K.J..... 915
A new radio map of the AD 1006 supernova remnant G327.6+14.6, CASWELL J.L., HAYNES R.F., MILNE D.K., WELLINGTON K.J..... 921
The reddening of radio elliptical galaxies, SPARKS W.B..... 1049
CS J=5-4 observations of galactic molecular clouds, WHITE GLENN J., PHILLIPS J.P., RICHARDSON K.J., FROST R.F., WATT G.D., BECKMAN J.E., DAVIS J.H..... 1117
Pulsar electrodynamics: cylindrical model and radio and gamma-ray radiation, DA COSTA A.A..... 1125
The Galactic nucleus, STOREY JOHN W.V., ALLEN DAVID A..... 1153
The Ursa Major supercluster - II.A statistical analysis of the radio survey, SCHUCH N.J..... 1245
Redshifts of five extragalactic radio sources, WARNER P.J., RILEY J.M., EALES S.A., DOWNES A.J.B., BALDWIN J.E..... 1279
Flux density and linear polarization measurements of variable radio sources at lambda 9.00 mm (33.5 GHz), FLETT A.M., HENDERSON C..... 1285

Is it possible to turn an elliptical radio galaxy into a BL Lac object?, BROWNE I.W.A..... 23P
Improved parameters for 40 pulsars, VIVEKANAND M., MOHANTY D.K., SALTER C.J..... 81P

SOLAR SYSTEM
The structure and evolution of the Solar System comet cloud, BAILEY M.E..... 603
Escape of ejecta from cratered Solar System satellites, PAPADAKOS D.N., WILLIAMS I.P..... 635
Planetary spin and satellite formation, WILLIAMS S., WOOLFSON M.M..... 853
Distribution of cometary binding energies based on the assumption of steady state, YABUSHITA S..... 1185
The pulsar $\dot{P}/P$ distribution and the postulated solar companion, COWLING STEPHEN A.. 1237

SPECTROSCOPY
Empirical improvement in accuracy of atomic oscillator strengths calculated by Kurucz and Peytremann, BLACKWELL D.E., BOOTH A.J., MENON S.L.R., PETFORD A.D., SMITH G..... 141
Correlation and the $3s^1\,3p^5\,{}^2P^o - 3s\,3p^6\,{}^2S$, $3s^2\,3p^5\,{}^2P^o - 3s^2\,3p^4\,3d^1\,S$ transitions in Fe X GLASS R..... 735
The effect of hyperfine structure on stellar abundance analysis, BOOTH A.J., BLACKWELL D.E..... 777
Measurement of relative oscillator strengths for TiI - III.Weak transitions from $a^3F_{3,4}$ (0.02 eV, 0.05 eV), a^5F_{1-5} (0.81 eV - 0.85 eV), a^1D_2 (0.90 eV), a^3P_{0-3} (1.05 eV - 1.07 eV) wih solar analysis, BLACKWELL D.E., MENON S.L.R., PETFORD A.D. 883

STARS - ANGULAR DIAMETERS OF
Speckle observations of eta Carinae, MEABURN J., WALSH J.R., HEBDEN J.C., MORGAN B.L., VINE H..... 41P

STARS - ATMOSPHERES OF
On the carbon overabundance in the OBC-type stars, LOPEZ J.A., WALSH J.R..... 129
Influence of turbulent pressure on solar convective modes, ANTIA H.M., CHITRE S.M., NARASIMHA D..... 865

STARS - BINARY
Continuum emission from classical nova winds, HARKNESS R.P..... 45
The symbiotic star H1-36, ALLEN DAVID A..... 113
The possibility of non-synchronism of convective secondaries in close binary stars, CAMPBELL C.G., PAPALOIZOU J..... 433
H 0139-68: high-speed optical photometry of an AM-Herculis type binary system, PICKLES A.J., VISVANATHAN N..... 463
Radial velocities for contact binary systems - III. V566 Ophiuchi, MCLEAN B.J..... 817
A study of the binary system 58 Persei, HARMER DIANNE L., STICKLAND D.J., LLOYD C., HARMER C.F.W., PIKE C.D., CROFT D..... 927
HZ Her: the nature and origin of the emission lines, HOWARTH IAN D., WILSON BOB.... 1091
An infrared study of the eclipsing dwarf nova U Geminorum, BERRIMAN G., BEATTIE D.H., GATLEY IAN, LEE T.J., MOCHNACKI S.W., SZKODY P..... 1105
Spectrophotometry of the recently discovered cataclysmic variable CPD -48° 1577, WARGAU W., DRECHSEL H., RAHE J., BRUCH A..... 35P
Recent photometry of the central star of NGC 2346, KOHOUTEK L..... 93P

STARS - CHEMICAL COMPOSITION OF
On the carbon overabundance in the OBC-type stars, LOPEZ J.A., WALSH J.R..... 129
Concentrations in the Local Association - III. Late-type bright giants, ages and abundances, EGGEN OLIN J..... 405
The effect of hyperfine structure on stellar abundance analysis, BOOTH A.J., BLACKWELL D.E..... 777
Abundance sensitive parameters for red giants in globular clusters, EVANS T.LLOYD.. 945
Observations of red variable stars in globular clusters, EVANS T.LLOYD..... 961
S stars in omega Centauri, EVANS T.LLOYD..... 975
M and S stars in the Magellanic Clouds, EVANS T.LLOYD..... 985

STARS - CLUSTERS OF
The abundance scale of the galactic globular clusters, BELL R.A., GUSTAFSSON B..... 249
Concentrations in the Local Association - I. The southern concentrations NGC 2516, IC 2602, Centaurus - Lupus and Upper Scorpius, EGGEN OLIN J..... 377
Concentrations in the Local Association - II. The northern concentrations including the alpha Persei, Pleiades, M34 and delta Lyrae clusters, EGGEN OLIN J.. 391

Concentrations in the Local Association - III. Late-type bright giants, ages and abundances, EGGEN OLIN J..... 405
The Wolf 630 moving group of stars, MCDONALD ADELINE R.E., HEARNSHAW J.B..... 841
Abundance sensitive parameters for red giants in globular clusters, EVANS T.LLOYD.. 945
Observations of red variable stars in globular clusters, EVANS T.LLOYD..... 961
S stars in omega Centauri, EVANS T.LLOYD..... 975
Post-collapse evolution of globular clusters, SUGIMOTO DAIICHIRO, BETTWEISER ERICH. 19P

STARS - FORMATION OF
On the fragmentation of differentially rotating clouds, GINGOLD R.A., MONAGHAN J.J. 715
Kinematical and chemical evolution of the galactic disc, LACEY CEDRIC G., FALL S.MICHAEL..... 791
CS J=5-4 observations of galactic molecular clouds, WHITE GLENN J., PHILLIPS J.P., RICHARDSON K.J., FROST R.F., WATT G.D., BECKMAN J.E., DAVIS J.H..... 1117

STARS - MAGNETIC FIELDS IN
On the Biermann 'battery' process in uniformly rotating chemically inhomogeneous stars, MESTEL L., MOSS D.L..... 557
On the decay of the toroidal component of a large-scale stellar magnetic field, MESTEL L., MOSS D.L..... 575
Collective bifurcation of flux sheets in two-dimensional magnetoconvection, PROCTOR M.R.E..... 935
Thermal origin of neutron star magnetic fields, BLANDFORD R.D., APPLEGATE J.H., HERNQUIST L..... 1025

STARS - MASS LOSS FROM
Continuum emission from classical nova winds, HARKNESS R.P..... 45
The structure and dynamics of the bi-polar nebula MZ-3, LOPEZ J.A., MEABURN J..... 203
IUE observations of stars in the M8 nebula, WELSH B.Y..... 1203

STARS - PHOTOMETRY OF
The symbiotic star H1-36, ALLEN DAVID A..... 113
Studies of A and F stars in the region of the North Galactic Pole - V. Interstellar reddening and the uvbyβ intrinsic colour calibration, HILDITCH R.W., HILL GRAHAM, BARNES J.V..... 241
Southern spectrophotometric standards for large telescopes, STONE REMINGTON P.S., BALDWIN J.A..... 347
Concentrations in the Local Association - I. The southern concentrations NGC 2516, IC 2602, Centaurus - Lupus and Upper Scorpius, EGGEN OLIN J..... 377
Concentrations in the Local Association - II. The northern concentrations including the alpha Persei, Pleiades, M34 and delta Lyrae clusters, EGGEN OLIN J.. 391
Concentrations in the Local Association - III. Late-type bright giants, ages and abundances, EGGEN OLIN J..... 405
H 0139-68: high-speed optical photometry of an AM-Herculis type binary system, PICKLES A.J., VISVANATHAN N..... 463
The Wolf 630 moving group of stars, MCDONALD ADELINE R.E., HEARNSHAW J.B..... 841
Abundance sensitive parameters for red giants in globular clusters, EVANS T.LLOYD.. 945
Symbiotic stars: spectrophotometry at 3 - 4 and 8 - 13 μm, ROCHE PATRICK F., ALLEN DAVID A., AITKEN DAVID K..... 1009
An infrared study of the eclipsing dwarf nova U Geminorum, BERRIMAN G., BEATTIE D.H., GATLEY IAN, LEE T.J., MOCHNACKI S.W., SZKODY P..... 1105
Spectrophotometry of the recently discovered cataclysmic variable CPD -48° 1577, WARGAU W., DRECHSEL H., RAHE J., BRUCH A..... 35P
The beta Cep variables - fundamental radial pulsators, SHOBBROOK R.R..... 47P
Recent photometry of the central star of NGC 2346, KOHOUTEK L..... 93P

STARS - SPECTROSCOPY OF
On the carbon overabundance in the OBC-type stars, LOPEZ J.A., WALSH J.R..... 129
Empirical improvement in accuracy of atomic oscillator strengths calculated by Kurucz and Peytremann, BLACKWELL D.E., BOOTH A.J., MENON S.L.R., PETFORD A.D., SMITH G..... 141
The structure and dynamics of the bi-polar nebula MZ-3, LOPEZ J.A., MEABURN J..... 203
The abundance scale of the galactic globular clusters, BELL R.A., GUSTAFSSON B..... 249
Southern spectrophotometric standards for large telescopes, STONE REMINGTON P.S., BALDWIN J.A..... 347
The effect of hyperfine structure on stellar abundance analysis, BOOTH A.J., BLACKWELL D.E..... 777

Observations of red variable stars in globular clusters, EVANS T.LLOYD..... 961
S stars in omega Centauri, EVANS T.LLOYD..... 975
M and S stars in the Magellanic Clouds, EVANS T.LLOYD..... 985
Molecules in celestial objects - IV. IUE observation of CO lines towards Be stars with low reddening, TARAFDAR S.P..... 1081
HZ Her: the nature and origin of the emission lines, HOWARTH IAN D., WILSON BOB.... 1091
IUE observations of stars in the M8 nebula, WELSH B.Y..... 1203

STARS - STRUCTURE AND EVOLUTION OF
Towards consistency in simple prescriptions for stellar convection, EGGLETON PETER P..... 449

STARS - SYMBIOTIC
The symbiotic star H1-36, ALLEN DAVID A..... 113
Symbiotic stars: spectrophotometry at 3 - 4 and 8 - 13 μm, ROCHE PATRICK F., ALLEN DAVID A., AITKEN DAVID K..... 1009

STARS - VARIABLE
Beat Cepheids - IV. AX Velorum and mode energy transfer, BARRELL SUSAN L..... 1
Continuum emission from classical nova winds, HARKNESS R.P..... 45
The pulsations of ZZ Ceti stars, BRICKHILL A.J..... 537
Observations of red variable stars in globular clusters, EVANS T.LLOYD..... 961
On the secular variation of amplitudes in double-mode Cepheids, AIKAWA TOSHIKI..... 1193
Spectrophotometry of the recently discovered cataclysmic variable CPD -48° 1577, WARGAU W., DRECHSEL H., RAHE J., BRUCH A..... 35P
Speckle observations of eta Carinae, MEABURN J., WALSH J.R., HEBDEN J.C., MORGAN B.L., VINE H..... 41P
The beta Cep variables - fundamental radial pulsators, SHOBBROOK R.R..... 47P
Recent photometry of the central star of NGC 2346, KOHOUTEK L..... 93P

STARS - VELOCITIES OF
Concentrations in the Local Association - I. The southern concentrations NGC 2516, IC 2602, Centaurus - Lupus and Upper Scorpius, EGGEN OLIN J..... 377
Concentrations in the Local Association - II. The northern concentrations including the alpha Persei, Pleiades, M34 and delta Lyrae clusters, EGGEN OLIN J.. 391
Radial velocities for contact binary systems - III. V566 Ophiuchi, MCLEAN B.J..... 817
The Wolf 630 moving group of stars, MCDONALD ADELINE R.E., HEARNSHAW J.B..... 841
Slippery evidence on the Galaxy's invisible heavy halo, LYNDEN-BELL D., CANNON R.D. GODWIN P.J..... 87P

SUN
Influence of turbulent pressure on solar convective modes, ANTIA H.M., CHITRE S.M., NARASIMHA D..... 865
Measurement of relative oscillator strengths for TiI - III.Weak transitions from $a^5F_{3,4}$ (0.02 eV, 0.05 eV), a^5F_{1-5} (0.81 eV - 0.85 eV), a^1D_2 (0.90 eV), a^5P_{0-3} (1.05 eV - 1.07 eV) wih solar analysis, BLACKWELL D.E., MENON S.L.R., PETFORD A.D. 883
Collective bifurcation of flux sheets in two-dimensional magnetoconvection, PROCTOR M.R.E..... 935

SUPERNOVAE AND SUPERNOVA REMNANTS
Radio observations of the SNR Puppis A, MILNE D.K., GOSS W.M., DANZIGER I.J..... 237
Spectrophotometry in the galactic supernova remnants RCW 86, 103 and Kepler, LEIBOWITZ ELIA M., DANZIGER I.J..... 273
Three -dimensional structure of the Crab Nebula, CLARK DAVID H., MURDIN PAUL, WOOD ROGER, GILMOZZI ROBERTO, DANZIGER JOHN, FURR ANDREW W..... 415
Radio observations of a new galactic supernova remnant, G9.8+0.6, CASWELL J.L..... 833
High-resolution study of the supernova remnant G330.2+1.0, CASWELL J.L., HAYNES R.F., MILNE D.K., WELLINGTON K.J..... 915
A new radio map of the AD 1006 supernova remnant G327.6+14.6, CASWELL J.L., HAYNES R.F., MILNE D.K., WELLINGTON K.J..... 921

ULTRAVIOLET ASTRONOMY
The Seyfert 1 galaxy NGC 4593 - II.The pattern of variability of the UV spectrum, CLAVEL J..... 189
A study of the binary system 58 Persei, HARMER DIANNE L., STICKLAND D.J., LLOYD C., HARMER C.F.W., PIKE C.D., CROFT D..... 927
Diffuse ultraviolet radiaton in the intergalactic medium, GONDHALEKAR P.M..... 997

Molecules in celestial objects - IV. IUE observation of CO lines towards Be stars with low reddening, TARAFDAR S.P..... 1081
HZ Her: the nature and origin of the emission lines, HOWARTH IAN D., WILSON BOB.... 1091
IUE observations of stars in the M8 nebula, WELSH B.Y..... 1203
The conspicuous absence of normal graphite grains in the Small Magellanic Cloud, BROMAGE G.E., NANDY K..... 29P

X-RAY ASTRONOMY
A new radio map of the AD 1006 supernova remnant G327.6+14.6, CASWELL J.L., HAYNES R.F., MILNE D.K., WELLINGTON K.J..... 921
A model for A 0538-66: the fast flaring pulsar, MARASCHI L., TRAVERSINI R., TREVES A..... 1179